

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

MICHAEL ALLEN BRYNER

CASE NO.: TK3690 US NA

APPLICATION NO.: 10/664,708

CONFIRMATION NO.: 4383

GROUP ART UNIT:

EXAMINER: UNKNOWN

FILED: SEPTEMBER 17, 2003

FOR: EXTREMELY HIGH LIQUID BARRIER FABRICS

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
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Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08. A copy of the information is also enclosed.

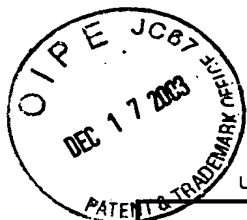
Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

**THOMAS W. STEINBERG**  
ATTORNEY FOR APPLICANT  
Registration No.: 37,013  
Telephone: (302) 892-0887  
Facsimile: (302) 892-7343

Dated: 12/12/03

TWS:fgl  
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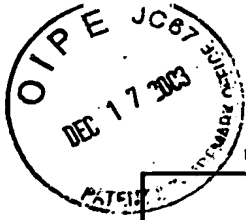
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INFORMATION DISCLOSURE STATEMENT FORM PTO/SB/08A  
INFORMATION DISCLOSURE STATEMENT FORM PTO/SB/08B (2)  
WO 03/080905 A1  
WO 02/43951 A2  
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PETER K. BAUMGARTEN, Electrostatic Spinning of Acrylic Microfibers, Journal of Colloid and Interface Science, May 1971, pp. 71-79, Vol. 36, No. 1

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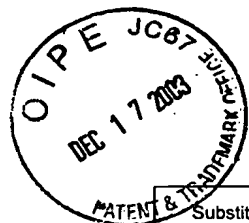
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/664708
				Filing Date	September 17, 2003
				First Named Inventor	MICHAEL ALLEN BRYNER
				Group Art Unit	
Examiner Name					
Sheet	1	of	3	Attorney Docket Number	TK3690USNA

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code <sup>2</sup> (if known)				
		US -	2003/0129909 A1	07-10-2003	ZUCKER	
		US -	2003/0106294 A1	06-12-2003	CHUNG ET AL.	
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		US -				
		US -				

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		CountryCode <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO	03/080905 A1	10-02-2003	Nano Technics Co. Ltd.		<input type="checkbox"/>
		WO	02/43951 A2	06-06-2002	Kimberly-Clark Worldwide Inc.		<input type="checkbox"/>
		WO	02/20668 A2, A3	03-14-2002	Donaldson Co. Inc.		<input type="checkbox"/>
		WO	01/26610 A1	04-19-2001	The University of Akron		<input type="checkbox"/>
		WO	01/27365 A1	04-19-2001	The University of Akron		<input type="checkbox"/>
		WO	00/22207 A2, A3	04-20-2000	The University of Akron		<input type="checkbox"/>
		WO	99/18893 A1	04-22-1999	Drexel Univ./Allegheny Health Education and Research Foundation		<input type="checkbox"/>
		CA	2,305,004	10-30-2000	Fibermark Gessner GMBH		<input type="checkbox"/>
		GB	2 104 087 A	03-02-1983	The Univ. of Liverpool/Ethicon Inc.		<input type="checkbox"/>
		GB	1 527 592	10-04-1978	Imperial Chemical Industries Ltd.		
		KR	2002-0093179	12-16-2002	Nano Techniques Co. Ltd.		
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STATEMENT BY APPLICANT**

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Sheet 2 of 3

**Complete if Known**

Application Number	10/664708
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First Named Inventor	MICHAEL ALLEN BRYNER
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**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PETER K. BAUMGARTEN, Electrostatic Spinning of Acrylic Microfibers, Journal of Colloid and Interface Science, May 1971, pp. 71-79, Vol. 36, No. 1	<input type="checkbox"/>
		A. E. ZACHARIADES, R. S. PORTER, JAYESH DOSHI, GOKOL SRINIVASAN, AND DARRELL H. RENEKER, High Modulus Polymers, A Novel Electrospinning Process, Polymer News, 1995, pp. 206-207, Vol. 20, Overseas Publishers Association, Amsterdam B.V., Published under license by Gordon and Breach Science Publishers SA	<input type="checkbox"/>
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		H. FONG, I. CHUN, D. H. RENEKER, Beaded nanofibers formed during eletrospinning, Polymer., 1999, pp. 4585-4592, 40, Elsevier Science Ltd.	<input type="checkbox"/>
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		FANG, XIAOYAN, Application of electrospinning for polymers, Dissertation Abstracts International, February 1998, p. 4246-B, Vol. 58 No. 8	<input type="checkbox"/>
		JAYESH DOSHI and DARRELL H. RENEKER, Electrospinning Process and Applications of Electrospun Fibers, Journal of Electrostatics, 1995, 151-160, 35, Elsevier Science B.V.	<input type="checkbox"/>
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Examiner Signature	Date Considered
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				Attorney Docket Number	TK3690USNA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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		W. JOHN G. MC CULLOCH, Ultrafine To Nanofine Fibers Via Spunmelt Processes, Nonwoven World, 2000, pp. 87-92, August-September	<input type="checkbox"/>
		STANLEY E. ROSS, Electrospinning: The Quest for Nanofibers, Fiber Engineering, International Fiber Journal, October 2001, pp. 50-53	<input type="checkbox"/>
		DR. HEIDI SCHREUDER-GIBSON (BILL SMITH), US Army develops fabric membrane to provide multipurpose protection, Technical Textiles International, May 1998, p. 6	<input type="checkbox"/>
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